

I. Listing of Claims

1. (Currently Amended) A method of manufacturing a high surface energy molded article with an injection mold having an inner surface, the method comprising:

applying a chlorinated polyolefin to a low adhesive sheet to form a chlorinated polyolefin film;

removing the chlorinated polyolefin film from the low adhesive sheet;

applying [[a]] the chlorinated polyolefin film to the inner surface of the injection mold;

introducing a thermoplastic resin having a temperature of at least 190 degrees Celsius on the chlorinated polyolefin film in the injection mold, the thermoplastic resin having a predetermined heat energy, to transfer at least a portion of the heat energy of the thermoplastic resin to the chlorinated polyolefin film;

defining a molded article having a surface;

maintaining contact of the thermoplastic resin and the chlorinated polyolefin film for a predetermined time period to diffuse the chlorinated polyolefin film through at least a portion of the surface of the molded article; and

increasing the surface energy of the portion of the molded article for enhanced adhesion.

2. (Currently Amended) The method for manufacturing a high surface energy molded article in claim 1, wherein the step of applying the chlorinated polyolefin to the ~~inner surface of the injection mold low adhesive sheet~~ includes spraying a plurality of chlorinated polyolefin particles to the ~~inner surface of the mold low adhesive sheet~~.

3. (Cancelled)

4. (Currently Amended) The method for manufacturing a high surface energy molded article in claim [[3]] 1, wherein the chlorinated polyolefin is a powder.

5. (Original) The method for manufacturing a high surface energy molded article in claim 2, wherein the chlorinated polyolefin is a chlorinated polyolefin solution.

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) A method of manufacturing a molded article with a mold having an inner surface, the method comprising:

providing a substance;

applying an electrical charge to a plurality of particles of the substance;

electrically grounding at least a portion of the mold;

applying the substance to the inner surface of the mold;

introducing a thermoplastic resin having a temperature of at least 190 degrees Celsius on the substance in the mold, the thermoplastic resin having a predetermined heat energy;

transferring at least a portion of the heat energy of the thermoplastic resin to the substance;

defining a molded article having a surface; and

maintaining contact of the thermoplastic resin and the substance for a predetermined time period to diffuse the substance through at least a portion of the surface of the molded article.

9. (Original) The method of manufacturing a molded article in claim 8, wherein the substance includes chlorinated polyolefin for increasing the surface energy of the portion of the molded article for enhanced adhesion.

10. (Original) The method for manufacturing a molded article in claim 9, wherein the chlorinated polyolefin includes a chlorinated polyolefin powder.

11. (Original) The method for manufacturing a molded article in claim 9, wherein the chlorinated polyolefin includes a chlorinated polyolefin solution.

12. (Original) The method of manufacturing a molded article in claim 8, wherein the substance includes an electrically conductive substance for increasing the conductivity of the portion of the molded article.

13. (Previously Presented) The method of manufacturing a molded article in claim 12, wherein the electrically conductive substance is selected from the group consisting of carbon, graphite, silver, nickel, and copper.

14. (Cancelled)

15. (Original) The method of manufacturing a molded article in claim 8, further comprising the steps of allowing the thermoplastic resin to harden into the molded article and removing the molded article from the mold, wherein the portion of the molded article has a surface energy of at least 38 dynes per centimeter after the step of removing the molded article from the mold.

16. (Previously Presented) A method for manufacturing a high surface energy molded article with a mold having an inner surface, the method comprising:

applying an electrical charge to a plurality of particles of a substance;

electrically grounding at least a portion of the mold;

spraying the plurality of particles of the substance onto the inner surface of the mold; and

inserting a thermoplastic resin having a temperature of at least 190 degrees Celsius into the mold such that the substance is bonded to an outer surface of the thermoplastic resin.

17. (Original) The method for manufacturing a high surface energy molded article in claim 16, wherein the mold includes an injection molding apparatus, and the step of inserting a thermoplastic resin into the mold includes injecting molding the thermoplastic resin into the mold.

18. (Original) The method of manufacturing a high surface energy molded article in claim 17, wherein the substance includes chlorinated polyolefin and an electrically conductive substance.

19. (Original) The method of manufacturing a high surface energy molded article in claim 18, wherein the electrically conductive substance is selected from the group consisting of carbon, graphite, silver, nickel, and copper.